

LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended): ~~A portable communications device, comprising:~~
a communications module, operative to interface with a handheld computing device, such that a given module can be connected to the handheld computing device and removed from the handheld computing device without substantial invasion of the handheld computing device, the communications module comprising:
a global positioning system that determines the location of the device module relative to a standard set of coordinates; and
an L-band transceiver, operative to transmit data directly to a satellite relay, that broadcasts the determined location at a frequency within the L-band of the electromagnetic spectrum and receives location data for at least one other communications device module; and
an electrically conductive enclosure that substantially encompasses the L-band transceiver, the electrically conductive enclosure being operative to facilitate the dissipation of heat produced by the L-band transceiver and to shield the L-band transceiver from electromagnetic interference.
~~a personal digital assistant that provides a user interface with the communications module and displays the determined location and the received location data.~~
2. (Currently Amended): The device module of claim 1, further comprising a single antenna operative to transmit and receive signals at L-band frequencies and to transmit and receive signals at GPS frequencies.

3. (Currently Amended): The ~~device~~ module of claim 2, the antenna comprising a single quadrifilar helix antenna.
4. (Currently Amended): The ~~device~~ module of claim 1, the communications module further comprising an input/output board that translates communications between the communications module and the personal digital assistant.
5. (Currently Amended): The ~~device~~ module of claim 1, the personal digital assistant comprising an internal power supply, the internal power supply being operatively connected to the communications module.
6. (Currently Amended): The ~~device~~ module of claim 1, the portable communications device further comprising an external battery that is operatively connected to the internal power supply.
7. Cancelled.
8. (Currently Amended): A personal digital assistant, comprising:
 - a global positioning system module that produces location information associated with the position of the personal digital assistant;
 - an L-band transceiver that broadcasts the location information to a network of at least one other personal digital assistant and receives location information from at least one other personal digital assistant within the network via a communications satellite; and
 - a processing system that provides messages to the L-band transceiver and updates a display associated with the personal digital assistant according the received location information and the location information produced at the global positioning system module; and

an electrically conductive enclosure that substantially encompasses the L-band transceiver, the electrically conductive enclosure being operative to facilitate the dissipation of heat produced by the L-band transceiver and to shield the L-band transceiver from electromagnetic interference.

9. (Original): The personal digital assistant of claim 8, the display associated with the personal digital assistant comprising a touchscreen display that allows the user to input commands into the personal digital assistant.

10. (Currently Amended): The personal digital assistant of claim 8, the processing unit system comprising a system memory that contains geographic information concerning an area of interest.

11. (Original): The personal digital assistant of claim 10, the system memory comprising at least one flash electrically erasable programmable read-only memory chip.

12. (Original): The personal digital assistant of claim 8, further comprising a detachable antenna that can be operatively connected to the personal digital assistant by a user to enable the personal digital assistant to facilitate the transmission and reception of messages by the L-band transmitter.

13. (Currently Amended): A method of updating location information at a handheld personal digital assistant via a battlefield tactical communications network, comprising:

determining the location of the handheld personal digital assistant at regular intervals via a global positioning system;

encoding routing information into a message including the determined location, the routing information indicating at least one of a plurality of logical networks as an intended recipient, a given logical network comprising a plurality of handheld personal digital assistants that can be addressed as a single unit;

broadcasting the ~~determined location~~ message on an L-band frequency via a satellite relay to at least one other personal digital assistant on the network;

receiving location information from at least one other personal digital assistant on the network on an L-band frequency via a satellite relay at the handheld personal digital assistant; and

displaying the determined location and the received location information on a display associated with the personal digital assistant.

14. (Currently Amended): The method of claim 13, ~~further comprising encoding addressing information within the L band broadcast of the determined location wherein displaying the determined location and the received location information comprises displaying the determined location and the received location information as part of a situational awareness map, such the determined location and the received location information are shown relative to their respective locations in an area represented by the situational awareness map.~~

15. Cancelled.

16. (Currently Amended): The method of claim ~~14~~ 13, further comprising determining if the received location information from at least one other personal digital assistant is intended for a logical network associated with the handheld personal digital assistant.

17. (Original): A method of adapting a personal digital assistant to operate in conjunction with a transceiver module having a predetermined form factor, comprising:

- providing at least one logic connection through a data port on the personal digital assistant to provide programmable logic signals to the transceiver;
- providing a connection to a battery associated with the personal digital assistant to provide an operating voltage for the transceiver module;
- adapting the received programmable logic signals and operating voltage according to the predetermined form factor of the transceiver; and
- loading interface software into the transceiver such that the personal digital assistant can drive the transceiver module to periodically transmit location information associated with the transceiver module.

18. (Original): The method of claim 17, further comprising the step of connecting an external battery to the battery associated with the personal digital assistant.

19. (Currently Amended): A personal digital assistant, comprising:

- means for determining the location of the personal digital assistant relative to a standard set of coordinates;
- means for transmitting the determined location to at least one other personal digital assistant;
- means for receiving location information from at least one other personal digital assistant; and
- means for displaying the determined location and the received location information on a geographic map, such that the received location and the determined location are shown relative to their respective locations in an area represented by the geographic map; and

means for controlling the power consumption of the personal digital assistant, such that the means for determining the location of the personal digital assistant remains in a stand-by mode for a first predetermined interval between updates to the position of the personal digital assistant, and the means for transmitting remains in a stand-by mode for a second predetermined interval between transmissions of the determined location to the at least one other personal digital assistant.

20. (Original): The personal digital assistant of claim 19, further comprising means for receiving input from a user.

21. (Original): The personal digital assistant of claim 20, the means for transmitting the determined location to at least one other personal digital assistant including means for transmitting a preset text message with the location information in response to user input.

22. (Currently Amended): The personal digital assistant of claim 19, further comprising means for ~~controlling the power consumption of at least one of the means for transmitting, the means for determining, and the means for displaying both~~ facilitating the dissipation of heat from the means for transmitting and shielding the means for receiving from electromagnetic interference.

23. (Currently Amended): The personal digital assistant of claim ~~19~~22, the means for controlling the power consumption comprising means for providing user control of the power consumption of at least one of the means for transmitting, the means for determining, and the means for displaying.

24. (Currently Amended): The personal digital assistant of claim ~~19~~22, the means for controlling the power consumption comprising means for adjusting power

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consumption for at least one of the means for transmitting, the means for determining, and the means for displaying in response to at least one predetermined condition.